ALASKA INDUSTRY COUNCIL MEETING MINUTES April 14, 2010

The Alaska Industry Council met at the Alaska DOT/PF Building on April 14, 2010 at 10:00 A.M.

The following agenda items were presented:

Introductions Round Table

Opening Remarks Jere Hayslett, FAA

WAAS Intelsat GEO (CRW) Outage Impacts Leo Eldredge, FAA

Surveillance and Broadcast Services Update Jere Hayslett, FAA

SBS Implementation brief Wes Mooty, FAA

Information Sharing All

Industry Feedback (Round Table)

All

Opening Remarks - Jere Hayslett

Jere Hayslett opened and chaired the meeting.

National ADS-B Update – Jere Hayslett

Jere presented an update on the ADS-B Key Sites as follows:

- Essential Services
 - Miami Area In Service Decision November 2008√
- Critical Services
 - Louisville Initial Operating Capability (IOC) November 2009√
 - Gulf of Mexico IOC –December 2009√
 - Philadelphia IOC March 2010√
 - Juneau IOC April 2010
 - In Service Decision September 2010

Jere stated that the target date for Initial Operating Capability (IOC) of the Juneau Key Site is April 30th, however the FAA is working to have it completed a couple of days earlier. Once the In Service Decision has been reached in September, the FAA will have approval to turn on the rest of the stations in Alaska and the lower 48 for Critical Services.

The status of the Final Rulemaking activities is depicted on the chart below:

Milestone	Planned Date of Completion	Status / Comments			
FAA Rulemaking Team finalizes RPR Phase 3	January 14, 2009	Complete			
RPR Phase 3 Submitted to ARM	January 21, 2009	Complete			
Rulemaking Council Approval of RPR	January 27, 2009	Complete			
Rulemaking Team Drafts Final Rule	May 2009	Complete			
Final Rule Economic Assessment	August 2009	Complete			
Final Rule Concurrence through Directors	October 2009	Complete			
Final Rule Concurrence through Associates	November 2009	Complete			
Final Rule Concurrence through Administrator	December 2009	Complete			
Final Rule Approved through OST	February 2010	Complete			
Final Rule Approved through OMB	April 2010				
Final Rule Published in Federal Register	April 2010 *				

At this time the word from OMB is that the publishing of the final rule could roll over to May, but they will make every effort to work with the SBS office to meet the goal of an April publishing.

Jere announced that the FAA SBS office has hired Brian Durham as it's Implementation Manager for the Western Service Area. Brian will be working out of Seattle to help the SBS Office with outreach and the management of implementation activities for ADS-B in the Western Service Area.

Alaska Business Case Update:

Jere stated that because industry was not able to equip the required number of aircraft to trigger continued build out of ground infrastructure in some of the service volumes under the AIC agreement, the FAA has been working to rebuild its business case for ground deployment based on a more realistic look at *services* being provided by the operators in those service volumes. This will be in addition to hours being flown. By taking this approach ground service deployment will no longer be primarily based on equipped aircraft.

The example below using PenAir in SV 4, shows one such scenario.

- Peninsula Airways (PenAir) carries 94% of the passengers in SV 4/327
- The PenAir fleet is currently ~37% equipped
- $^{\bullet}$ Below is the SV 4/327 business case scenario, if PenAir equips 100% of their SV 4/327 operations

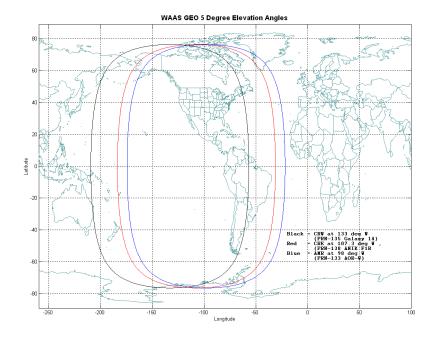
				Ground	Ground	Ground			
				station-	station-	station-			
	Avionics	Avionics	Avionics	related	related	related	Total	Total	Total B/C
Scenario	Costs	Benefits	B/C Ratio	Costs	benefits	B/C Ratio	Costs	Benefits	Ratio
Current (Penair 37% equipped, some other operators equipped)	\$0.53	\$2.39	4.5	\$8.83	\$5.82	0.7	\$9.36	\$8.22	0.9
Assume Penair 100% Equipped, no change to other operators	\$1.41	\$6.37	4.5	\$8.83	\$16.31	1.8	\$10.24	\$22.68	2.2
All SV operators 100% equipped	\$3.26	\$9.27	2.8	\$8.83	\$18.06	2.0	\$12.08	\$27.33	2.3

WAAS Intelsat GEO (CRW) Outage Impacts - Leo Eldredge

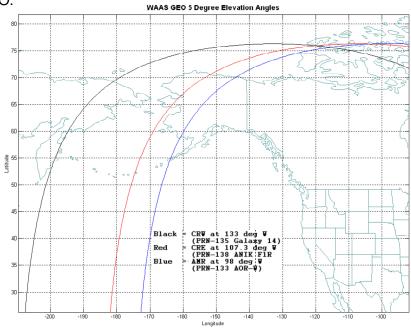
Issue

- WAAS Currently Leases Two GEOs
 - Intelsat (CRW) at 133 W
 - PanAmSat (CRE) at 107.3 W
- Intelsat (CRW) TT&C Has Failed
 - Provider Lost Ability to Control the GEO's Position on April 3rd
 - GEO Will Drift Out of Useable Orbit Over Next 2-4 Weeks
- Loss of WAAS Service in NW Alaska is Imminent
 - No Impact to LPV Service at the 16 Affected Airports
 - No LPV approaches published at these airports
 - LNAV Service Available Using GPS Only
 - Enroute/Terminal Service Including Q-Routes Available with Receiver Autonomous Integrity Monitoring (RAIM)
 - Users Will Need to Plan Around RAIM Availability
 - Requires a pre-flight RAIM prediction

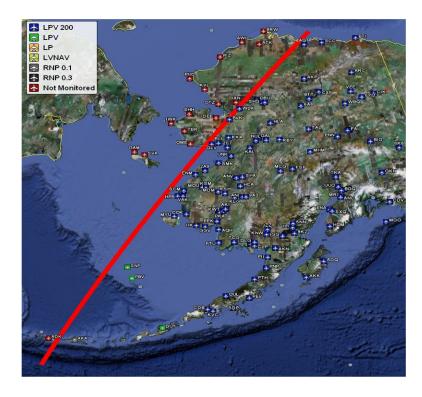
This first chart depicts current WAAS GEO Coverage.



The chart below shows what coverage is expected to be in Alaska without the Intelsat GEO.



The third chart is a goole map that shows what airports in Alaska will be affected. The airports in Red are the airports that will no longer have the WAAS GEO signal.



NAS Impacts

- Users Outside the Affected Area Will Continue to Have LPV service
- Due to Lack of Redundant GEO Coverage, WAAS Users May Experience Temporary Service Interruptions
 - If WAAS GEO Uplink Station (GUS) Switchovers Occur
 - Potential to Occur 3-5 Times per Year
 - Up to 5 Minutes May be Required to Restore LPV Service
- Single Point Failure Situation Exists Until Redundancy Restored
 - WAAS Team Integrating Gap Filler GEO (AMR) at this Time
 - Planned for December 2010

Mitagations

- Investigate Integration of Inmarsat-III Pacific Ocean Region GEO
 - Formerly used by WAAS Prior to Switching to Intelsat (CRW)
 - Lockheed Martin Working this with AJW-431
- Accelerate Procurement of 5th GEO
 - Will Replan Resources Saved from Loss of CRW
- Publish Advisory NOTAM Complete
- Publish Final NOTAM Prior to Loss of GEO
 - Format and Content Being Coordinated with AFS
- Investigate Accelerating Gap Filler GEO Integration
 - Potential to Implement as Emergency Release

Next Steps

- Continue to Monitor GEO Performance
- Determine Date to Issue Final NOTAMs
- Continue Action Plans for Mitigations

SBS Implementation brief – Wes Mooty

AWOS

- Shungnak
 - Commissioned Dec '09 and has been approved.
- Brevig Mission
 - Permit approved install at spring thaw
 - Power and Telco issues being worked Power wants to go under ground and Telco wants to stay in the air, so the FAA is working to get the two to resolve that issue.
- White Mountain
 - Materials arrived at site
 - Installation to proceed at spring thaw
- Noorvik & Shaktoolik

JAIs planned for April based on circuit availability

Elim

Elim was a late addition – The FAA is still hoping to get the installation completed this year. There is a good chance commissioning will not be completed by the end of this fiscal year, but hopefully the ground work will be. Commissioning can be done in the winter, so the goal is to have all work completed by the end of this calendar year.

- 7460 complete
- · Permitting and lease in process

Juneau WAM Status

IOC (Service to Anchorage Air Traffic) January 2010 - Complete

- Williams Mountain
 - Buildings, tower, solar arrays, propane, and power systems installed
 - AT&T not received FTA for telco link; no antennas or RF cable installed due to icing
 - Working alternate com solutions to keep power system operational over winter
 - Planning controlled facility cold soak to prevent unmonitored system failure
- Lynns Intersection
 - · Buildings, tower, and solar arrays installed
 - Interconnecting power and propane systems to bring up site
 - Expediting antenna and RF cable install before tower is un-climbable due to weather
- Saddle Mountain
 - SOA wrapping up cable ladder and DC power system work in new building
 - TSSC crews in Juneau to support FAA equipment relocation and installation

Alaska ADS-B Essential Services

- ITT systems currently installed at:
 - Sisters Island SV-178 -- Operational
 - AT&T Mile 11 SV-178 -- Operational
 - Wrangell SV-324 -- Testing phase
 - Pedro Dome SV-328 -- Testing phase

ITT Installs to be completed in April/May:

- High Mountain SV-324 -- 16 APR
- Angoon SV-324 -- 23 APR
- Mt. Ripinski SV-324 07 MAY
- Gunnuk SV-324 -- 07 MAY
- Sunnahae SV-324 -- 14 MAY
- Cape Spencer SV-324 04 JUNE
- Cantwell SV-329 -- 23 APR
- Bethel SV-333 14 MAY
- Pt. Hope SV-336 -- 14 MAY

Round Table
There were no comments for the Round Table Discussion and the meeting was adjourned at 11:55 AM.